CLAIMS

1. A process for the secure distribution of digital audiovisual streams according to a standard, normalized or proprietary format, in which streams a separation of the stream into two parts is made prior to the transmission to the addressee's equipment in order to generate a modified main stream with the format of the original stream and to generate complementary information with any format comprising the digital information suitable for permitting the reconstruction of the original stream, characterized in that this modified main stream is transmitted from a distribution server via separate paths during the distribution phase and that this complementary information is transmitted in an extended, secure multicasting mode to this addressee's equipment from a secure central server passing via at least one router and at least one switch connecting this addressee's equipment to this central server via at least one access point.

2. A process for the secure distribution of audiovisual streams according to Claim 1, characterized in that the authentication between the client and the server is performed in unicast mode.

3. A process for the secure distribution of audiovisual streams according to Claim 2, characterized in that a session key that is unique by content and by client is generated by the central server following this authentication.

4. A process for the secure distribution of audiovisual streams according to Claim 3, characterized in that the complementary information is compressed and encrypted prior to being sent to the client.

5. A process for the secure distribution of audiovisual streams according to one of the previous claims, characterized in that the management of a multicasting group is performed in the connection layer controlling the distribution of data in multicasting solely for the access point concerned.

6. A process for the secure distribution of audiovisual streams according to one of the previous claims, characterized in that the managing and the securing of the complementary information is performed following a multi-reception of the requests for authentication by a central server and comprises a compression stage, and encryption stage and a management stage of said session keys.

7. A process for the secure distribution of audiovisual streams according to one of the previous claims, characterized in that the regeneration of a new session key for the client is performed as a function of the decision of the client to prolong the connection, is based on the lifetime of the preceding session key and is individual for each member of the multicasting group.

8. A process for the secure distribution of audiovisual streams according to one of the previous claims, characterized in that the complementary information is secured and personalized for each client and for each multicasting session with the aid of methods of hybrid or symmetric or asymmetric encryption.

9. A system for the secure distribution of audiovisual streams according to one of the previous claims, characterized in that the control of the throughput in the multicasting group is performed as a consequence of the managing and personalizing of the securing of the complementary information.

10. A system for the secure distribution of audiovisual streams for the implementation of the process according to one of the previous claims, characterized in that it comprises a device for separating the original video stream into a modified main stream and into complementary information, at least one multimedia server containing the protected audiovisual streams, at least one secure central server comprising a device for securing and personalizing this complementary information from which the complementary information is distributed, at least one telecommunication network, at least one router, at least one switch functioning as access point for the connection to the addressee's equipment and a device in the addressee's equipment for the reconstruction of the original audiovisual stream as a function of said modified main stream and of said complementary information.